13. Using PHP and MySQL, develop an application for AIRLINE RESERVATION on a system which allows the user to book a ticket on a particular date for a particular type of class. At the end, once the ticket is booked, it should display a boarding pass indicating the person's seat number, type of class and total fare. Input validation should be done properly

```
<html>
  <head>
    <title>Airline Reservation</title>
    <style>
      .error {
        color: red;
      }
      #ticket
      {
        border-style: dashed;
        border-color: red;
        background-color: DodgerBlue;
        width: 50%;
        text-align: center;
      }
    </style>
  </head>
  <body>
    <?php
    $nameErr = $ageErr = $sourceErr = $destErr = $classErr = $mobileErr = $emailErr = "";
    $ok = 0;
    if (isset($_POST["submit"])) {
      $name = $_POST['name'];
      $age = $_POST['age'];
      $clas = $_POST['clas'];
      $mobile = $_POST['mobile'];
      $email = $_POST['email'];

      $ok = 1;

      if (empty($_POST["name"])) {
        $nameErr = "Name is required!!!";
        $ok = 0;
      } else {

        if (!preg_match("/^[a-zA-Z- ]+$/", $name)) {
          $nameErr = "Only letters and white spaces are allowed!!!";
          $ok = 0;
```

```php
            }
        }
        if (empty($_POST["age"])) {
            $ageErr = "Age is required!!!";
            $ok = 0;
        } else {

            if (!preg_match("/[0-9]+/", $age)) {
                $ageErr = "numerical value is allowed!!!";
                $ok = 0;
                if (!($age >= 18)) {
                    $ageErr = "Age must be above 18!!!";
                }
            }
        }

        if (empty($_POST["clas"])) {
            $classErr = "Select class!!!";
            $ok = 0;
        }
        if (empty($_POST["mobile"])) {
            $mobileErr = "Mobile is required!!!";
            $ok = 0;
        } else {

            if (!preg_match("/[0-9]{10}/", $mobile)) {
                $mobileErr = "Mobile number should be of 10 digits !!!";
                $ok = 0;
            }
        }
        if (empty($_POST["email"])) {
            $emailErr = "Email is required!!!";
            $ok = 0;
        } else {

            if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
                $emailErr = "Invalid email format!!!";
                $ok = 0;
            }
        }
    }
?>
```

<h1>Airline Reservation</h1>

```html
<p><span class="error">* required field</span></p>

<form method="post" action="">
  <table>
    <tr>
      <td>
        <label>Name</label>
      </td>
      <td>
        <input type="text" name="name" />
        <span class="error">*<?php echo $nameErr; ?></span>
      </td>
    </tr>
    <tr>
      <td>
        <label>Age</label>
      </td>
      <td>
        <input type="text" name="age" />
        <span class="error">*<?php echo $ageErr; ?></span>
      </td>
    </tr>
    <tr>
      <td>
        <label>Mobile No.</label>
      </td>
      <td>
        <input type="text" name="mobile" />
        <span class="error">*<?php echo $mobileErr; ?></span>
      </td>
    </tr>
    <tr>
      <td>
        <label>Email</label>
      </td>
      <td>
        <input type="text" name="email" />
        <span class="error">*<?php echo $emailErr; ?></span>
      </td>
    </tr>
    <tr>
      <td>
        <label>Date</label>
      </td>
```

```html
            <td>
                <input type="date" name="d" />
            </td>
        </tr>
    </table> <br />
    <label>Source</label>
    <select name="source">
        <option value="0|Bangalore">Bangalore</option>
        <option value="1|Kolkata">Kolkata</option>
        <option value="2|Mumbai">Mumbai</option>
    </select>
    <span class="error">*<?php echo $sourceErr; ?></span> <br/><br/>
    <label>Destination</label>
    <select name="destination">
        <option value="0|Istanbul">Istanbul</option>
        <option value="1|Chennai">Chennai</option>
        <option value="2|Kerala">Kerala</option>
    </select>
    <span class="error">*<?php echo $destErr; ?></span> <br/><br/>
    <label>Type of class</label><br/>
    <input type="radio" name="clas"  value="3000|Economy"/> Economy <br/>
    <input type="radio" name="clas"  value="5000|Business"/> Business <br/>
    <input type="radio" name="clas"  value="7000|First"/> First
    <span class="error">*<?php echo $classErr; ?></span> <br/><br/>

    <input type="submit" value="Book Ticket" name="submit" />
    </form>
    </body>
</html>

<?php
if ($ok == 1) {
    $c = explode('|',$_POST["clas"]);
    $cValue = $c[0];
    $cText = $c[1];

    $s = explode('|',$_POST['source']);
    $sValue = $s[0];
    $sText = $s[1];

    $d = explode('|',$_POST['destination']);
    $dValue = $d[0];
    $dText = $d[1];
```

```php
    $rate = array(
        array(5000, 6000, 7000),
        array(3000, 4000, 5000),
        array(2000, 4000, 8000));
    $totalFare = $rate[$sValue][$dValue] + $cValue;

    $conn = mysqli_connect("localhost", "root", "", "sample");
    if ($conn)
        echo "MySQL is connected<br/>";
    else
        echo "Error!<br/>";

    $q1 = "insert into airline(Name, Age, Source, Destination, Class, Mobile, Email)
values('$name','$age','$sText','$dText','$cText','$mobile','$email' );";
    if ($conn->query($q1)) {
        echo "Row Inserted<br/><br/>";
        echo "<center><h3>Boarding Pass</h3>";
    } else
        echo "Insertion error!!!<br/>";

    $q2 = "select * from airline ORDER BY SeatNo DESC LIMIT 1";
    $result = $conn->query($q2);
    if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc()) {
            echo "<div id='ticket'>";
            echo "Seat Number : " . $row['SeatNo'] .
            "<br/>Name : " . $row['Name'] .
            "<br/>Source : " . $row['Source'] .
            "<br/>Destination : " . $row['Destination'] .
            "<br/>Type of Class : " . $row['Class'];
            echo "<br/>Date of Journey : " . $_POST['d'];
            echo "<br /> Total Fare: " . $totalFare;
            echo "</div></center>";
        }
    }
}
?>
```

Airline Reservation

Name   [　　　　　　　]   *

Age   [　　　　　　　]   *

Mobile No.   [　　　　　　　]   *

Email   [　　　　　　　]   *

Date   [dd - mm - yyyy ▦]

Source [Bangalore ˅] *

Destination [Istanbul ˅] *

Type of class
- ○ Economy
- ○ Business
- ○ First *

[Book Ticket]

Boarding Pass

Seat Number : 22
Name : aiyan
Source : Bangalore
Destination : Istanbul
Type of Class : First
Date of Journey : 2023-12-09
Total Fare: 12000

14. Write a PHP program to read student data from an XML file and store into the MYSQL database. Retrieve and display.

Data.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<StudentInfo>
   <s1>
      <Name>ABC</Name>
      <Age>19</Age>
      <Course>BCA</Course>
      <Sem>5</Sem>
   </s1>
   <s2>
      <Name>MNO</Name>
      <Age>17</Age>
      <Course>ABC</Course>
      <Sem>3</Sem>
   </s2>
   <s3>
      <Name>XYZ</Name>
      <Age>18</Age>
      <Course>ABC</Course>
      <Sem>4</Sem>
   </s3>
</StudentInfo>
```

Index.php

```php
<?php

$xml = simplexml_load_file('Data.xml');
echo $xml->getName() . "<br/>";
$conn = new mysqli('localhost', 'root', '', 'sample');
foreach ($xml->children() as $child) {
   $sno = $child->getName();
   $n = $child->Name;
   $a = $child->Age;
   $c = $child->Course;
   $s = $child->Sem;

   $q1 = "Insert into student values('$sno','$n','$a','$c','$s');";

   if ($conn->query($q1))
```

```
        echo "Row Inserted!<br/>";
    }

$q2 = "select * from student;";
$result = $conn->query($q2);
if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        echo "Name : " . $row['Name'] .
        "<br/>Age : " . $row['Age'] .
        "<br/>Course : " . $row['Course'] .
        "<br/>Semester : " . $row['Sem'] . "<br/>";
    }
}
?>
```

Name	Type
SNo	varchar(10)
Name	varchar(20)
Age	int(11)
Course	varchar(10)
Sem	int(11)

StudentInfo
Row Inserted!
Row Inserted!
Row Inserted!
Name : ABC
Age : 19
Course : BCA
Semester : 5
Name : MNO
Age : 17
Course : ABC
Semester : 3
Name : XYZ
Age : 18
Course : ABC
Semester : 4

Output